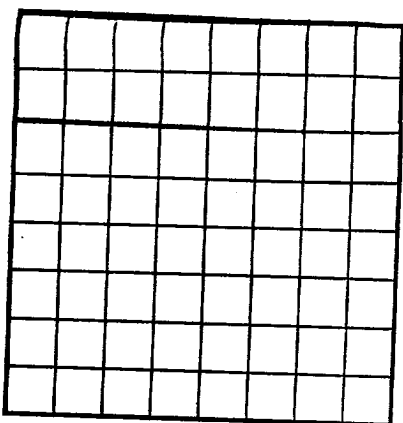




LOCATE WELL CORRECTLY

COPY

U. S. LAND OFFICE Las Cruces

SERIAL NUMBER 049947-A

LEASE OR PERMIT TO PROSPECT

UNITED STATES

Martin Yates, III

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Yates et al Address Artesia, New Mexico
Lessor or Tract _____ Field Loco Hills State New Mexico
Well No. 4-A Sec. 6 T. 13 R. 30 Meridian N.M.P.M. County Eddy
Location 2310 ft. (N.) of S. Line and 1650 ft. (E.) of W. Line of Sec. 6 Elevation _____
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Beth KingDate February 21st, 1940 Title Secretary

The summary on this page is for the condition of the well at above date.

Commenced drilling January 7th, 1940 Finished drilling February 13th, 1940

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2822 to 2840 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8 1/2" casing</u>				<u>455'</u>		<u>50 sac cement</u>			
<u>7" casing</u>				<u>2730'</u>		<u>100 sac cement,</u>			<u>5 tons mud</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
		<u>Same as casing record</u>			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
<u>Shot well from 2822 to 2840 feet with 70 quarts of Nitro-Glycerin on February 12, 1940, work done by the New Mexico Glycerin Company</u>						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from 0 feet to 2840 feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing February 15th, 1940
The production for the first 24 hours was 140 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 380
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

W. M. Gray, Driller G. C. Bean, Driller
Alfred Gooley, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>50</u>		<u>Red sand</u>
<u>50</u>	<u>65</u>		<u>Sandy red rock</u>
<u>65</u>	<u>170</u>		<u>Red sand</u>
<u>170</u>	<u>270</u>		<u>Sand and red beds</u>
<u>270</u>	<u>310</u>		<u>Gyp</u>
<u>310</u>	<u>320</u>		<u>Red sand</u>
<u>320</u>	<u>325</u>		<u>Red beds</u>
<u>325</u>	<u>375</u>		<u>Red rock</u>
<u>375</u>	<u>395</u>		<u>Gyp</u>
<u>395</u>	<u>400</u>		<u>Red rock</u>
<u>400</u>	<u>430</u>		<u>Red beds</u>
<u>430</u>	<u>480</u>		<u>Salt</u>
<u>480</u>	<u>830</u>		<u>Salt and potash</u>
<u>830</u>	<u>845</u>		<u>Potash and gyp</u>
<u>845</u>	<u>910</u>		<u>Salt and potash</u>
<u>910</u>	<u>975</u>		<u>Salt, potash and anhyd.</u>
<u>975</u>	<u>1115</u>		<u>salt and potash</u>
<u>1115</u>	<u>1168</u>		<u>Anhyd.</u>
<u>1168</u>	<u>1180</u>		<u>Anhyd. and red rock broken</u>
<u>1180</u>	<u>1470</u>		<u>Anhyd.</u>
<u>1470</u>	<u>1480</u>		<u>Anhyd. and red rock</u>
<u>1480</u>	<u>1585</u>		<u>Anhyd.</u>
<u>1585</u>	<u>1625</u>		<u>Anhyd. and red rock</u>
<u>1625</u>	<u>2318</u>		<u>Anhyd.</u>
<u>2318</u>	<u>2330</u>		<u>Anhyd. and red sand</u>

(OVER)

FOOT WEIL CORRECTLY

LOCALITY WITH CORRELATION

UNITED STATES

[illegible]

CONFIDENTIAL

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

IMPORTANT WATER TANKS

No. 1 from ...
No. 2 from ...
No. 3 from ...
No. 4 from ...
No. 5 from ...
No. 6 from ...
No. 7 from ...
No. 8 from ...
No. 9 from ...
No. 10 from ...

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redbilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "mudded" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

FROM-	TO-	TOTAL FEET	FORMATION
2330	2340	2340	Red sand
2340	2350	2350	Anhyd. and red sand
2350	2475	2475	Anhyd.
2475	2490	2490	Lime
2490	2560	2560	Anhyd.
2560	2590	2590	Anhyd. and red sand
2590	2643	2643	Anhyd. and red sand
2643	2660	2660	Brown lime
2660	2680	2680	Lime
2680	2700	2700	Lime, sandy
2700	2713	2713	Lime, brown
2713	2717	2717	Black slate
2717	2755	2755	Gray lime
2755	2800	2800	Brown lime
2800	2812	2812	Gray lime
2812	2814	2814	Blue lime, sandy
2814	2816	2816	Hard gray sand
2816	2821	2821	Gray sand
2821	2834	2834	Brown sand
2834	2870	2870	Oil sand
2870			Total depth